

Curriculum vitae with track record: Øyvind Halskau

ROLE IN PROJECT

Project manager

Collaborator

PERSONAL INFORMATION

Name: **Halskau, Øyvind**

Date of birth: 06.06.1975, married, one child (born Feb. 2017)

Sex: Male

Nationality: Norwegian

Researcher unique identifier, ORCID: orcid.org/0000-0003-2517-1060

URL for personal web site: <http://www.uib.no/en/persons/Øyvind.Halskau>

EDUCATION

- 2005 PhD **Dissertation date: 10.3 2005.**
Name of Faculty/ Faculty of Mathematics and Natural Sciences / Laboratory of
Biotechnology, University of Bergen, Norway
- 2001 Master (Cand. scient.) Chemistry
Faculty of Mathematics and Natural Sciences, University of Bergen, Norway
- minor items---
- 2010-2014: «FLP» - Research Group and Academic Leadership training
 «UNIPED» - University teaching 20 ECTS, see also teaching below

CURRENT POSITION

2014-present: Professor, Dept. of Molecular Biology (University of Bergen)

PREVIOUSLY HELD POSTIONS

- 2012-2016: Biostruct PhD-school Coordinator + 20% position (University of Tromsø)
- 2010-2014: Associate Professor, Dept. of Molecular Biology (University of Bergen)
- 2009-2010: Post doc, Dept. of Biomedicine (University of Bergen)
- 2009: Scientist, Dept. of Chemistry, Biotech. and Food Science (NMBU, Ås)
- 2005-2009: Post doc, Dept. of Biomedicine (University of Bergen)
- 2002-2005: Ph. D. position, Dept. of Biomedicine (University of Bergen)

FELLOWSHIPS AND AWARDS

- 2016: Nominated as best lecturer at The Faculty of Mathematics and Science
- 2009: The Bergen Medical Foundation Strategic Recruitment Program (3 year researcher position,
gratefully received, but not taken)
- 2007: 1-year post-doc from Research Council of Norway, grant #185306, with Professor Amdam.
- 2006-2008: Norwegian Cancer Society Post-doc fellowship, (grant #58240001)
- 2002-2005: PhD fellowship (Research Council of Norway grant #149117, with Professor Martínez)
- 2004-2017: Meltzer fund travel grant x3 within the period indicated

MOBILITY (*research stays abroad lasting more than three months*)

2006-2007: Lab of Prof. Sanchez-Ruiz (Dec. 2006 - Feb. 2007):

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS:

- 2008-present: 5 PhD-students as main supervisor, 6 as co-supervisor (with Puntervoll, Reuter, Martínez, Amdam x2 and Glomm, respectively).
- 2002-present: 11 Masterstudents as main supervisor, 4 as co-supervisor (with Martinez, Frøystein, Aasland, Underhaug).

TEACHING ACTIVITIES

- 2013-present: MOL320 - Advanced Biophysical Techniques
- 2011-present: MOL210 - Lipid Biochemistry (with A. Lewis)
- 2011-present: MOL310 - Structural Molecular Biology
- Minor contributions---
- 2015: MBV 9520 (2x45 min lecture in protein dynamics, national-level Biostruct-course)
- 2014-2018: MOL950 (a small practical NMR module, national-level Biostruct-course)
- 2011-2013: Lecture in BMED325 - Nanobiochemistry
- 2007-2011: Lecture in Atomic Force Microscopy (national-level Biostruct-course)
- 1998-2001: Guest lectures and leading discussions in BMED310 - Philosophy of Science Statistics (SOK33B) and Inorganic chemistry

ORGANISATION OF SCIENTIFIC MEETINGS (if applicable)

- 2018-2019: ADAM8 – Scandinavian Amyloid Meeting 2019, part of committee
- 2015-2016: MR2016 -- The biennial national NMR-meeting, leader.
- 2015-2016: NBS Contact Meeting 2015 organization committee, leader
- Minor contributions---
- 2014: Scandinavian Amyloid Meeting 2014, part of organization committee
- 2010: NBS Contact Meeting 2010 organization committee
- 2009-2016 Annual Biostruct Gathering (8), Jægtvolden

INSTITUTIONAL RESPONSIBILITIES

- 2018-present: "Faggruppe" Leader for Mol. Biol., Department of Biological Sciences, Univ. of Bergen
- 2017: Acting Head of Department, Department of Molecular Biology, Univ. of Bergen
- 2016-present: Deputy Head of Department, Department of Molecular Biology, Univ. of Bergen
- 2016-present: Deputy Leader of NUCREG lab at Department of Molecular Biology
- 2016-present: Deputy Board Member BioCat, National PhD-school within biocatalysis
- 2015-present: Deputy Board Member National NMR Platform, representing Univ. of Bergen
- 2008-2013: National NMR Platform, Application Coordinator, leading to the establishment of NNP – the National NMR Platform
- Since 2007: Served on 6 PhD Thesis committees
Performed 12 Master Thesis reviews

COMMISSIONS OF TRUST (most recent activities only):

- 2017-2019: Search- and interview committees for 6 PhD, 3 Post-Docs and 5 Prof./Assoc. Prof. positions
- 2019: Kavli Foundation Nanosymposium: Chair and member of evaluation committee
- 2012-2016: The Norwegian Biochemical Society, Leader of Bergen Chapter
- 2005: Chief Editor of The Norwegian Biochemical Society Magazine
- 1998-2005: Chief Editor of 2 other popular science journals
- 2000-5: Board member of 3 popular science websites and magazines

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- 2018-present: Non-globular protein COST Network
- 2013-present: The Scandinavian Amyloid Network
- 2009-present: The Norwegian MR Society (Founding member)
- 2002-present: The Norwegian Biochemical Society
- 2000-2010: The Norwegian Chemical Society

1998-present: The Norwegian Engineering Society

RECENT COMPETITIVE FUNDING (major items since 2008):

- 2017-2021: Launching the first vaccination programs for a beneficial, pollinating insect (Research Council of Norway grant #262137, supporting role, grant to Prof. Amdam)
- 2016-2024: BioCat -- PhD-School in Catalysis (Research Council of Norway grant #249023, supporting role, grant to Prof. Smalås)
- 2015-2019: The membrane as a catalyst of damaging protein misfolding events (Research Council of Norway grant #240063)
- 2013: The Norwegian NMR Platform – 51.4 million NOK towards instrument new purchases; with Frode Rise and Finn Aachmann (Research Council of Norway grant #226244/F50)
- 2009-2010: Cancer therapies based on protein folding intermediates stabilized, traced and delivered by nano-particles (The BMFS Recruitment Program).
- 2008-2011: Dissecting molecular properties of honey bee vitellogenin (Research Council of Norway grant #185306, supporting role, grant to Prof. Amdam)

MAJOR COLLABORATIONS (major activities since ~2009):

International and national collaborations

- Gro Vang Amdam, Arizona State University, USA (several joint papers, and funded projects)
- Ludmilla Morozova-Roche, Umeå University, Sweden, (manuscripts)
- Rein Aasland, Department of Biosciences, University of Oslo (several joint papers, manuscripts)
- Astrid Mork-Jansson, Centre for Organelle Research, Univ. of Stavanger (manuscript, application)
- Wilhelm Glomm, Norw. Univ. of Science and Technology, Norway (several joint papers)
- Knut Teigen, University of Bergen, (several joint papers, manuscripts)
- Nathalie Reuter, University of Bergen (several joint papers, manuscripts, and one funded project)
- Jarl Underhaug, University of Bergen (active manuscripts, cosupervised students)

Intra-departmental collaborations – joint projects and/or papers with:

- Aurelia Lewis, Anders Goksøyr

TRACK RECORD.

1. Total number of publications: in ISI: 36 / PubMed: 32.

ISI Mar 2019: Hirsch Index 17; Total non-self citations: 616.

[§]Communicating authorship

*Shared first authorship

Selected ten publications from the last ten years:

34. Strømmand, Ø., Handegård, Ø. S., Govasli, M. L., Wen, H., **Halskau, Ø[§]**. Peptides derived from α -lactalbumin membrane binding helices oligomerize in presence of lipids and disrupt bilayers. (2017) *Biochim Biophys Acta Biomembranes*. **1859**(5), 1029-39. (1 citation)
33. Furse, S., M. Jakubec, F. Rise, H.E. Williams, C.E.D. Rees, and **Ø. Halskau[§]**, *Evidence that Listeria innocua modulates its membrane's stored curvature elastic stress, but not fluidity, through the cell cycle*. Scientific Reports, 2017. **7**. (2 citations)
31. Wen, H., Strømmand, Ø. **Halskau, Ø[§]**. α -Lactalbumin:Oleic Acid Complex Spontaneously Delivers Oleic Acid to Artificial and Erythrocyte Membranes. (2015) *J. Mol. Biol.* **427**(19) 3177-2187 (5 citations)
30. A.S. Schillinger, C. Grauffel, H.M. Khan, **Ø. Halskau**, N. Reuter, Two homologous neutrophil serine proteases bind to POPC vesicles with different affinities: When aromatic amino acids matter, *Biochim. Biophys. Acta - Biomembr.* 1838 (2014) 3191–3202. doi:10.1016/j.bbamem.2014.09.003. (6 citations)
28. Wen, H., Glomm, W. R., **Halskau, Ø[§]**. (2013) Cytotoxicity of bovine α -lactalbumin:oleic acid complexes correlates with the disruption of lipid membranes. *Biochim Biophys Acta Biomembranes*. **1828**(11), 2691-9. (16 citations)

27. Å.A. Skjævik, M. Mileni, A. Baumann, Ø. Halskau, K. Teigen, R.C. Stevens, A. Martinez, The N-Terminal Sequence of Tyrosine Hydroxylase Is a Conformationally Versatile Motif That Binds 14-3-3 Proteins and Membranes, *J. Mol. Biol.* **426** (2013) 150–168. doi:10.1016/j.jmb.2013.09.012. **(13 citations)**
 24. Havukainen, H., Munch, D., Baumann, A., Zhong, S., Halskau, Ø., Krogsgaard, M. & Amdam, G. (2013). Vitellogenin recognizes cell damage through membrane binding and shields living cells from reactive oxygen species. *J. Biol. Chem.* **288**(39), 28369-81. **(36 citations)**
 12. Mossberg, A. K.*, Puchades, M.*, Halskau, Ø.*, Baumann, A., Lanekoff, I., Chao, Y., Martinez, A., Svanborg, C. & Karlsson, R. (2010). HAMLET interacts with lipid membranes and perturbs their structure and integrity. *PLoS One.* **5**, e9384. **(47 citations)**
 10. Halskau, Ø., Muga, A. & Martinez, A. (2009). Linking new paradigms in protein chemistry to reversible membrane-protein interactions. *Current protein & peptide science.* **10**, 339-59. **(35 citations)**
 9. Halskau, Ø., Ying, M., Baumann, A., Kleppe, R., Rodriguez-Larrea, D., Almas, B., Haavik, J. & Martinez, A. (2009). Three-way interaction between 14-3-3 proteins, the N-terminal region of tyrosine hydroxylase, and negatively charged membranes. *The Journal of biological chemistry.* **284**, 32758-69. **(28 citations)**
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Most cited papers, life-time:

5. Glomm, W. R., Halskau, Ø., Hanneseth, A. M., and Volden, S. (2007) Adsorption behavior of acidic and basic proteins onto citrate-coated Au surfaces correlated to their native fold, stability, and pI. *J Phys Chem B* **111**, 14329-14345 **(68 citations)**
1. Halskau, Ø., Frøystein, N. A., Muga, A., and Martínez, A. (2002) The membrane-bound conformation of alpha-lactalbumin studied by NMR-monitored 1H exchange. *J Mol Biol* **321**, 99-110 **(61 citations)**